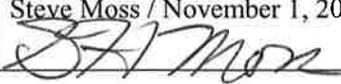


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Attachment B

USI Screening Checklist

A) USI Screening Purpose: <input checked="" type="checkbox"/> Proposed Activity <input type="checkbox"/> Existing Condition	B) Description of Proposed Activity/Discovered Condition and Sponsor/Condition Owner: Technical Note # 231 - 19-ID NYX Beamline Radiation Shielding Analysis / X. Yang and M. Benmerrouche The radiation shielding analysis for the NYX beamline (19-ID) is documented in the Technical Note and confirms compliance with the NSLS-II Beamline Radiation Shielding Policy via FLUKA modeling of various possible fault conditions, with maximal source parameters.
C) USI Screening Outcome: <input checked="" type="checkbox"/> No potential USI <input type="checkbox"/> Potential USI	USI Screening Performed by/Date: Steve Moss / November 1, 2016  11/01/16

Qualified Screener answers the following questions; if:

- Any question is answered yes (i.e., "Y"), check "Potential USI" box in Part C, above.
- If all questions are answered no (i.e., "N"), check "No potential USI" box in Part C, above.

Does the proposed change or discovered condition impact or potentially impact:

1) The personnel protection system (PPS)?

Examples: Access doors, fencing, hatches, accelerator enclosures, software change, hardware modifications that are not, "replacement-in-kind."

Y or N

2) ODH Monitoring System?

Examples: Hutch ODH monitors, filling station ODH monitors.

Y or N

3) Radiation Safety Component?

Examples: Shielding, earthen berms, hatches, concrete walls, beam shutters, scatter shields, burn-through devices, exclusion zones, labyrinths, beam stops, beam masks, collimators, hutch guillotine and beam transport pipes.

Y or N

4) Area radiation monitoring system or components?

Examples: Changing instrument position or use of a new type of instrument used for area radiation monitoring, alarms and controls.

Y or N

5) Radiological source terms identified in the SAD?

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Examples: New insertion devices, change to the maximum synchrotron energy or accelerated charge values, accelerator modifications that are not "replacement-in-kind."

Y or N

6) Critical devices

Examples: Safety shutters, dipole magnets, top-off apertures.

Y or N

7) PS operating organization?

Examples: Control room operators, support staff responsible for PPS, radiation monitoring or shielding configuration management.

Y or N

8) Operational safety limits described in the Authorization Basis Documents?

Examples: Maximum current, beam energy, pulse rate.

Y or N

Forward the completed form to the Authorization Basis Manager

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USI Screening Checklist

A) USI Screening Purpose: <input checked="" type="checkbox"/> Proposed Activity <input type="checkbox"/> Existing Condition	B) Description of Proposed Activity/Discovered Condition and Sponsor/Condition Owner: 19-ID (NYX) Top-Off Radiation Safety Analysis / M. Benmerrouche, X. Yang, R. Fliller and Y. Li The Top-Off Radiation Safety analysis for the NYX beamline (19-ID) is documented in the Technical Note NSLSII-TOS-RPT-009 and confirms via backward tracking analysis and FLUKA modeling that injected electron beam from the Storage Ring does not channel down the FE and into the beamline FOE, in accordance with procedure PS-C-ASD-PRC-183, <i>Approval of New and Modified NSLS-II Beamline Front Ends for Top Off Safety.</i>
C) USI Screening Outcome: <input checked="" type="checkbox"/> No potential USI <input type="checkbox"/> Potential USI	USI Screening Performed by/Date: Steve Moss / November 1, 2016  

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Y or N

4) Area radiation monitoring system or components?

Examples: Changing instrument position or use of a new type of instrument used for area radiation monitoring, alarms and controls.

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Y or N

- 5) Radiological source terms identified in the SAD?

Examples: New insertion devices, change to the maximum synchrotron energy or accelerated charge values, accelerator modifications that are not "replacement-in-kind."

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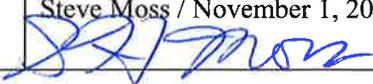
Y or N

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USI Screening Checklist

<p>A) USI Screening Purpose:</p> <p><input checked="" type="checkbox"/> Proposed Activity</p> <p><input type="checkbox"/> Existing Condition</p>	<p>B) Description of Proposed Activity/Discovered Condition and Sponsor/Condition Owner:</p> <p>19-ID Front End, ID and PDS Installation / (NYX) Partner</p> <p>Proposed diagnostic beamlines utilizing IVU sources have already been planned for and analyzed within the SAD and is discussed in Sections 3.3.3.6 – Storage Ring and Section 3.3.3.8 – Photon Sources. See especially Table 3.8 – Insertion Devices Included in the Baseline Configuration of NSLS-II and Table 3.9 – Basic Parameters of NSLS-II Radiation Sources for Storage Ring Operation at 3.0 GeV and 500 mA.</p> <p>Additional analyses included within negative USI Evaluation No. NSLS-II-EVAL-2014-015, "Confirmation of Shielding Adequacy for EPU49, IVU 21 and 22 Insertion Devices". Specific supplemental analysis for 19-ID have been prepared addressing Shielding as well as the Top-Off Radiation Safety Analysis, and so this USI Screening does include Commissioning. The 19-ID reference documents include: NSLSII Technical Note 231, 19-ID NYX Beamline Radiation Shielding Analysis, X. Yang and M. Benmerrouche; NSLSII-TOS-RPT-009, 19ID (NYX) TOP-OFF RADIATION SAFETY ANALYSIS, M. Benmerrouche, X. Yang, R. Filler and Y. Li.</p>
<p>C) USI Screening Outcome:</p> <p><input checked="" type="checkbox"/> No potential USI</p> <p><input type="checkbox"/> Potential USI</p>	<p>USI Screening Performed by/Date:</p> <p>Steve Moss / November 1, 2016</p> 

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